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Group Art Unit: 1644

Attorney  
Docket: 26871

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

Sir:

Applicant requests that MPEP 609 be complied with and the examiner consider information which has been considered by the Office in a parent application when examining (A) a continuation application, (B) a divisional application, or (C) a continuation-in-part application.

This is a divisional of U.S. Patent Application No. 09/704,772, filed November 3, 2000, which is a divisional of U.S. Patent Application No. 09/322,977, filed June 1, 1999, now U.S. Patent No. 6,531,129, issued March 11, 2003, which is a divisional of U.S. Pat. application No. 09/071,739, filed May 1, 1998, now U.S. Patent No. 6,177,545, issued January 23, 2001, which is a continuation-in-part of U.S. Pat. application No. 08/922,170, filed September 2, 1997, now U.S. Patent No. 5,968,822, issued October 19, 1999.

This Information Disclosure Statement is being filed subsequent to an Office Action being mailed and a late fee of \$180 is due. Please charge my Deposit Account 50-1407 for this fee, as well as any additional fees due.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

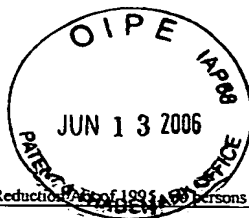
Respectfully submitted,

A handwritten signature in black ink, appearing to read "Martin D. Moynihan". The signature is fluid and cursive, with the first name "Martin" and last name "Moynihan" clearly distinguishable.

Martin D. Moynihan

Registration No. 40,338

Dated: June 11, 2006



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

## **Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 11/154,805        |
| Filing Date            | October 17, 2001  |
| First Named Inventor   | Oron JACOBY-ZEEVI |
| Art Unit               | 1636              |
| Examiner Name          | unknown           |
| Attorney Docket Number | 29714             |

Sheet 1 of 19

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| Examiner<br>Signature    |                       |                                             |                                | Date<br>Considered                                 |                                                                                 |        |

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<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------|-------------------|
| Substitute for form 1449A/PTO<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       |                                                                                                                                                                                                                                                                                                               |    | Complete if Known      |                   |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | Application Number     | 11/154,805        |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | Filing Date            | October 17, 2001  |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | First Named Inventor   | Oron JACOBY-ZEEVI |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | Group Art Unit         | 1636              |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | Examiner Name          | unknown           |
|                                                                                                                                               |                       |                                                                                                                                                                                                                                                                                                               |    | Attorney Docket Number | 29714             |
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|                                                                                                                                               |                          |                                          |                                | First Named Inventor                               | PECKER Iris et al                                                               |
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|                                                                                                          |                       |                                                                                                                                                                                                                                                               | Filing Date            | February 25, 2004 |
|                                                                                                          |                       |                                                                                                                                                                                                                                                               | First Named Inventor   | PECKER Iris et al |
|                                                                                                          |                       |                                                                                                                                                                                                                                                               | Group Art Unit         | 1652              |
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|                                                                                                          | 44                    | Hulett et al. "Cloning of Mammalian Heparanase, An Important Enzyme in Tumor Invasion and Metastasis", Nature Medicine, 5(7): 803-809, 1999.                                                                                                                  |                        |                   |
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|                                                                                                                                                      |   |    |   | Filing Date            | January 14, 2003  |
|                                                                                                                                                      |   |    |   | First Named Inventor   | ILAN, Neta et al. |
|                                                                                                                                                      |   |    |   | Group Art Unit         | 1652              |
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|                                                                                                          |                       | Vlodavsky et al. "Mammalian Heparanase: Gene Cloning, Expression and Function in Tumor Progression and Metastasis", Nature Medicine, 5(7): 793-802, 1999.                                                                                                     |   |                        |                |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |                       |                                                                                                                                                                                                                                                               | Application Number   | 10/781,758             |                |
|                                                                                                          |                       |                                                                                                                                                                                                                                                               | Filing Date          | January 14, 2003       |                |
|                                                                                                          |                       |                                                                                                                                                                                                                                                               | First Named Inventor | ILAN Neta et al        |                |
|                                                                                                          |                       |                                                                                                                                                                                                                                                               | Group Art Unit       |                        |                |
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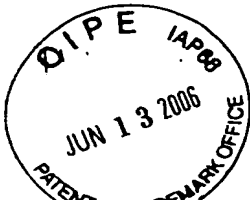
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|----------------------|-------------------------|
| Application Number   | 10/722,502              |
| Filing Date          | August 22, 2003         |
| First Named Inventor | YACOBY-ZEEVI Oron et al |
| Art Unit             | 1644                    |
| Examiner Name        |                         |

Sheet 1 of 11 Attorney Docket Number 26872

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|                                                                                                   |                       |                                                                                                                                                                                                                                                                                                                   |                                | Filing Date                                        | August 22, 2003                                                                 |                |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                                                                   |                                | First Named Inventor                               | YACOBY-ZEEVI Oron et al                                                         |                |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                                                                   |                                | Art Unit                                           | 1644                                                                            |                |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                                                                   |                                | Examiner Name                                      |                                                                                 |                |
| Sheet                                                                                             | 2                     | of                                                                                                                                                                                                                                                                                                                | 11                             | Attorney Docket Number                             | 26872                                                                           |                |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br><i>(use as many sheets as necessary)</i> |     |                                                                                                                                                                                                                                                      |    | Application Number     | 10/712,502              |
|                                                                                                          |     |                                                                                                                                                                                                                                                      |    | Filing Date            | August 22, 2003         |
|                                                                                                          |     |                                                                                                                                                                                                                                                      |    | First Named Inventor   | YACOBY-ZEEVI Oron et al |
|                                                                                                          |     |                                                                                                                                                                                                                                                      |    | Art Unit               | 164                     |
|                                                                                                          |     |                                                                                                                                                                                                                                                      |    | Examiner Name          |                         |
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| Application Number | 10/456,573 |
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| Filing Date | 06/09/2003 |
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| First Named Inventor | Iris PECKER |
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| Group Art Unit | 1646 |
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| Application Number | 10/371,218 |
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| Filing Date | 02/24/2003 |
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| First Named Inventor | Zcharia |
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| Group Art Unit | 1652 |
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|                          |                       | WO                       | 99/57244            |                                      | Ben-Artzi et al                                 | 11-11-1999                                          |                                                                           |                |
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| Application Number     | 10/371,218 |
| Filing Date            | 02/24/2003 |
| First Named Inventor   | Zcharia    |
| Group Art Unit         | 1652       |
| Examiner Name          |            |
| Attorney Docket Number | 25783      |

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| Application Number | 10/341,582 |
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| Filing Date | 01/14/2003 |
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| First Named Inventor | Ilan et al |
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| Group Art Unit | 1652 |
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|                          |               | WO                       | 95/04158            |                                      | Hoogwerf et al                                     | 02-09-1995                                             |                                                                                    |                |
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| Application Number     | 10/341,582 |
| Filing Date            | 01/14/2003 |
| First Named Inventor   | Ilan et al |
| Group Art Unit         | 1652       |
| Examiner Name          |            |
| Attorney Docket Number | 25449      |

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| Examiner Signature                                | Susisekharan et al    |                                                                                                                                                                                                                                                               | Date 10/90. p. 3660-3664<br>Considered April 93 |

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|                                                                                                   |                       | Filing Date                                                                                                                                                                                                                                                   | 01/14/2003      |
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| Application Number | 10/163,993 |
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|             |              |
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| Filing Date | June 7, 2002 |
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| First Named Inventor | Yacobi-Zeevi |
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| Group Art Unit | 1652 |
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|                   | AD       | "The Merck Manual", R. Berkow, M.D. Ed-in-Chief, Merck Research Laboratories. 1997, pp 201, 204, 1308, 177-179, 1016-1017, 194-197, 885, 601.                                                                                                                            |                |
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|                   | AH       | Ramsey et al, "Intermittent Administration of Inhaled Tobramycin in Patients with Cystic Fibrosis. Cystic Fibrosis Inhaled Tobramycin Study Group", <i>N. Eng. J. Med.</i> , 1999 Jan 7; 340(1):23-30 (Abstract)                                                         |                |
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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |   |    | Application Number   | 10/163,993             |          |
|                                                                                               |   |    | Filing Date          | June 7, 2002           |          |
|                                                                                               |   |    | First Named Inventor | Yacobi-Zeevi           |          |
|                                                                                               |   |    | Group Art Unit       | 1652                   |          |
|                                                                                               |   |    | Examiner Name        |                        |          |
| Sheet                                                                                         | 3 | of | 6                    | Attorney Docket Number | 02/23834 |

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |          |                                                                                                                                                                                                                                                               |                |
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|                                                   | AQ       | Weller, Peter H., "Implications of Early Inflammation and Infection in Cystic Fibrosis: A Review of New and Potential Interventions", <i>Pediatric Pulmonology</i> , 24:143-146, 1997                                                                         |                |
|                                                   | AR       | Konstan, Michael W., "Current Understanding of the Inflammatory Process in Cystic Fibrosis", <i>Pediatric Pulmonology</i> , 24:137-142, 1997                                                                                                                  |                |
|                                                   | AS       | Rubin, Bruce K., "Emerging Therapies for Cystic Fibrosis Lung Disease", <i>Chest</i> , 115:1120-1126, 1999                                                                                                                                                    |                |
|                                                   | AT       | Marty et al, "Influence of Nutrient Media on the Chemical Composition of Exopolysaccharide from Mucoid and Non-Mucoid Pseudomonas Aeruginosa", <i>FEMS Microbiol Lett</i> , 1992 Nov 1; 77(1-3):35-44 (Abstract)                                              |                |
|                                                   | AU       | Pasquier et al, "Implication of Neutral Polysaccharides Associated to Alginate Inhibition of Murine Macrophage Response to Pseudomonas Aeruginosa", <i>FEMS Microbiol Lett</i> , 1997 Feb 15; 147(2):195-202 (Abstract)                                       |                |
|                                                   | AV       | Drigues et al, "Comparative Studies of Lipopolysaccharide and Exopolysaccharide From a Virulent Strain of Pseudomonas Solanacearum and for Three Avirulent Mutants", <i>J Bacteriol</i> , 1985 May; 162(2):504-509 (Abstract)                                 |                |
|                                                   | AW       | Jorba et al, "Variations in the P. Aeruginosa Polysaccharide Synthesis Conditioned by Aminosugars (author's transl), <i>Rev Esp Fisiol</i> , 1980 Jun; 36(2):155-161 (Abstract)                                                                               |                |
|                                                   | AX       | Ramos et al, "Relationship Between Glycolysis and Exopolysaccharide Biosynthesis in Lactococcus Lactis", <i>Appl Environ Microbiol</i> , 2001 Jan; 67(1):33-41 (Abstract)                                                                                     |                |
|                                                   | AY       | Bhaskar et al, "Dysregulation of Proteoglycan Production by Intrahepatic Epithelial Cells Bearing Defective (delta-f508) Cystic Fibrosis Transmembrane Conductance Regulator", <i>Hepatology</i> , 1998 Jan; 27(1):7-14 (Abstract)                            |                |
|                                                   | AZ       | Vogel et al, "Production Of Proteoglycans By Human Lung Fibroblasts (IMR-90) Maintained In A Low Concentration Of Serum", <i>Biochem J</i> 1982 Dec 1; 207(3):369-379. (Abstract)                                                                             |                |
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|                                                   | BB       | Welch et al, "Complex Saccharide Metabolism In Cystic Fibrosis Fibroblasts" <i>Pediatr Res</i> , 1975 Sep; 9(9):698-702. (Abstract)                                                                                                                           |                |
|                                                   | BC       | Rahmoune et al, "Chondroitin Sulfate In Sputum From Patients With Cystic Fibrosis and Chronic Bronchitis", <i>Am J Respir Cell Mol Biol</i> , 1991 Oct; 5(4):315-20. (Abstract)                                                                               |                |

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| Application Number     | 10/163,993   |
| Filing Date            | June 7, 2002 |
| First Named Inventor   | Yacoby-Zeevi |
| Group Art Unit         | 1652         |
| Examiner Name          |              |
| Attorney Docket Number | 02/23884     |

Sheet 4 of 5

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS |                       |                                                                                                                                                                                                                                                               |
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|                                                   | BD                    | Beuth et al, "Lectin-Mediated Bacterial Adhesion To Human Tissue", <i>Eur J Clin Microbiol</i> , 1987 Oct;6(5):591-3. (Abstract)                                                                                                                              |
|                                                   | BE                    | Allison et al, "Polysaccharide Production in <i>Pseudomonas Cepacia</i> ", <i>J Basic Microbiol</i> , 1994; 34(1):3-10 (Abstract)                                                                                                                             |
|                                                   | BF                    | Albus et al, "Staphylococcus Aureus Capsular Types And Antibody Response To Lung Infection In Patients With Cystic Fibrosis", <i>J Clin Microbiol</i> . 1988 Dec; 26(12):2505-9. (Abstract)                                                                   |
|                                                   | BG                    | Macone et al, "Mucoid <i>Escherichia Coli</i> In Cystic Fibrosis", <i>N Engl J Med</i> . 1981 Jun 11;304(24):1445-9. (Abstract)                                                                                                                               |
|                                                   | BH                    | Golberg et al, "An Improved Method For Determining Proteoglycans Synthesized by Chondrocytes in Culture", <i>Connective Tissue Research</i> , 24:265-275, 1990                                                                                                |
|                                                   | BI                    | Farnsdale et al, "A Direct Spectrophotometric Microassay for Sulfated Glycosaminoglycans in Cartilage Cultures", <i>Connective Tissue Research</i> , 9:247-248, 1982                                                                                          |
|                                                   | BJ                    | Sutherland, Ian W., "Structure-Function Relationships in Microbial Exopolysaccharides", <i>Biotech Adv.</i> , 12:393-448, 1994                                                                                                                                |
|                                                   | BK                    | Tatnell et al, "Characterisation of Alginate from Mucoid Strains of <i>Pseudomonas Aeruginosa</i> ", <i>Biochem. Soc. Trans.</i> , 24:404S, 1996                                                                                                              |
|                                                   | BL                    | Tatnell et al, "Chemical Analysis of Alginates from Mucoid Strains of <i>Pseudomonas Aeruginosa</i> ", <i>Biochem. Soc. Trans.</i> , 22:310S, 1994                                                                                                            |
|                                                   | BM                    | Tatnell et al, "Colonisation of Cystic Fibrosis Patients by Non-Mucoid <i>Pseudomonas Aeruginosa</i> – Characterisation of the Alginate from Mucoid Variants", <i>Biochem. Soc. Trans.</i> , 24:406S, 1996                                                    |
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|                                                   | BO                    | Drigues et al, "Comparative Studies of Lipopolysaccharide and Exopolysaccharide from a Virulent Strain of <i>Pseudomonas Solanacearum</i> and from Three Avirulent Mutants", <i>J Bacteriology</i> , May, 1985, pp 504-509                                    |
|                                                   | BP                    | Macone et al, "Mucoid <i>Escherichia Coli</i> in Cystic Fibrosis", <i>New England J Medicine</i> , 304(24):1444S-1449                                                                                                                                         |
|                                                   | BQ                    | Ofek et al, "Bacterial Adhesion to Cells and Tissue", Chapman & Hall, N.Y., Pub. 1994, pp 114-118, 148-153, 418-418, 420-423                                                                                                                                  |

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|                                                                                                                                               |   | Application Number   | 10/163,993   |                        |          |
|                                                                                                                                               |   | Filing Date          | June 7, 2002 |                        |          |
|                                                                                                                                               |   | First Named Inventor | Yacoby-Zeevi |                        |          |
|                                                                                                                                               |   | Group Art Unit       | 1552         |                        |          |
|                                                                                                                                               |   | Examiner Name        |              |                        |          |
| Sheet                                                                                                                                         | 5 | of                   | 6            | Attorney Docket Number | G2/23884 |

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|                   | BR                    | Reddi, A. Hari, "Role of Morphogenetic Proteins in Skeletal Tissue Engineering and Regeneration", <i>Nature Biotechnology</i> , Vol. 16, March 1998, pp. 247 – 252                                                                                            |                |
| ✓                 | BS                    | L.A. Dempsey et al., "Heparanase, A Potential Regulator of Cell-Matrix Interactions", <i>Trends in Biochem Sci</i> , 25:349-351, 2000                                                                                                                         |                |
|                   | BT                    | Elkin et al., "Heparanase as Mediator of Angiogenesis,: mode of action", <i>The FASEB Journal</i> , 15: 1661-1663, 2001                                                                                                                                       |                |
|                   | BU                    | Elkin et al., "Heparanase as Mediator of Angiogenesis,: mode of action", <i>The FASEB Journal</i> . Published online May 29, 2001                                                                                                                             |                |
|                   | BV                    | E. Finkel, "Potential Target Found for Antimetastasis Drugs", <i>Science</i> , Vol., 285, July 2, 1999, pp. 33 – 34                                                                                                                                           |                |
| ✓                 | BW                    | I. Vlodavsky, et al., "Mammalian Heparanase: Gene Cloning, Expression and Function in Tumor Progression and Metastasis", <i>Nature Medicine</i> , Vol. 5, No. 7, July 1999, pp. 793 – 802                                                                     |                |
|                   | BX                    | Webster et al., FGFR Activation in Skeletal Disorders: too much of a good thing, <i>TIG</i> , May 1997, Vol. 13, No. 5, pp. 178 – 182                                                                                                                         |                |
| ✓                 | BY                    | Prockop, D.J., "Marow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", <i>Science</i> , Vol. 276, 4 April 1997, pp. 71 – 74                                                                                                                         |                |
|                   | BZ                    | Shimazu, et al., "Syndecan-3 and the control of chondrocyte proliferation during endochondral ossification", <i>Exp. Cell. Res.</i> 1996 Nov. 25:229:1, pp. 126 – 136 (Abstract)                                                                              |                |
|                   | CA                    | F. Blanquaert et al., "CMDDBS, functional analogs of sulfate heparanes, used as osseous cicatrizing agents", <i>Ann. Endocrinol (Paris)</i> 1994 55:2 pp. 121 – 123 Abstract                                                                                  |                |
|                   | CB                    | F. Blanquaert et al., "Heparan-like molecules induce the repair of skull defects", <i>Bone</i> 1995, December 17:6 pp. 499 – 506 (Abstract)                                                                                                                   |                |
|                   | CC                    | Muir et al., "Histomorphometric Analysis of the Effects of Standard Heparin on Trabecular Bone <i>in vivo</i> ", <i>Flood</i> , August 15, 1996:88(4):1314 – 1320 (Abstract)                                                                                  |                |

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|                                                                                                                                               |   | Application Number   | 10/163,993   |                        |          |
|                                                                                                                                               |   | Filing Date          | June 7, 2002 |                        |          |
|                                                                                                                                               |   | First Named Inventor | Yacoby-Zeevi |                        |          |
|                                                                                                                                               |   | Group Art Unit       | 1652         |                        |          |
| Examiner Name                                                                                                                                 |   |                      |              |                        |          |
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|                                                   | CD                    | Hoffman et al, "Human Bone Morphogenic Protein 2 Contains a Heparin-Binding Site Which Modifies its Biological Activity", <i>Eur. J. Biochem.</i> , 237(1):295-302, 1996 (Abstract)                                                                                         |
|                                                   | CE                    | Imai et al, "Osteoblast Recruitment and Bone Formation Enhanced by Cell Matrix-Associated Heparin-Binding Growth-Associated Molecule (HB-GAM)", <i>J Cell Biol.</i> , 143(4):1113-1128, 1998 (Abstract)                                                                     |
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|                                                   | CG                    | Kiberstis et al, "Bone Health in the Balance", <i>Science</i> , 289:1497, 2000                                                                                                                                                                                              |
|                                                   | CH                    | Service, R.F., "Tissue Engineers Build New Bone", <i>Science</i> , 289:1498-1500, 2000                                                                                                                                                                                      |
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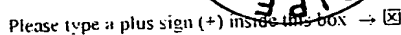
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|                                                                                                                                                             |   |    | Application Number       | 10/137,351             |          |
|                                                                                                                                                             |   |    | Filing Date              | May 3, 2002            |          |
|                                                                                                                                                             |   |    | First Named Inventor     | Ayal-Hershkovitz et al |          |
|                                                                                                                                                             |   |    | Group Art Unit           | 1652                   |          |
|                                                                                                                                                             |   |    | Examiner Name            |                        |          |
| Sheet                                                                                                                                                       | 1 | of | 1                        | Attorney Docket Number | 02/23665 |

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| Application Number | 09/988,113 |
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| Filing Date | March 1, 1999 |
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| First Named Inventor | Pecker et al |
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| Group Art Unit | 1652 |
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| Examiner Name | Hutson, Richard G. |
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| Attorney Docket Number | 01/22781 |
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|                                                                                                   |                       | Filing Date                                                                                                                                                                                                                                                   | March 1, 1999      |
|                                                                                                   |                       | First Named Inventor                                                                                                                                                                                                                                          | Pecker et al       |
|                                                                                                   |                       | Group Art Unit                                                                                                                                                                                                                                                | 1652               |
|                                                                                                   |                       | Examiner Name                                                                                                                                                                                                                                                 | Hutson, Richard G. |
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| Application Number     | 09/988,113         |
| Filing Date            | March 1, 1999      |
| First Named Inventor   | Pecker et al       |
| Group Art Unit         | 1652               |
| Examiner Name          | Hutson, Richard G. |
| Attorney Docket Number | 01/22781           |

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|                                                                                                   |                       |                                                                                                                                                                                                                                                                          |   | Filing Date            | 10/17/2001     |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                          |   | First Named Inventor   | Yacobi-Zeevi   |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                          |   | Group Art Unit         | 1633           |
|                                                                                                   |                       |                                                                                                                                                                                                                                                                          |   | Examiner Name          |                |
| Sheet                                                                                             | 2                     | Of                                                                                                                                                                                                                                                                       | 4 | Attorney Docket Number | 01/22716       |
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| Examiner Initials                                                                                 | Cite No. <sup>1</sup> |                                                                                                                                                                                                                                                                          |   |                        | T <sup>2</sup> |
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|                                                  |    |                                                                                                                                                                                                                                      |   | First Named Inventor   | Yacobi-Zeevi |
|                                                  |    |                                                                                                                                                                                                                                      |   | Group Art Unit         | 1633         |
|                                                  |    |                                                                                                                                                                                                                                      |   | Examiner Name          |              |
| Sheet                                            | 3  | Of                                                                                                                                                                                                                                   | 4 | Attorney Docket Number | 01/22716     |
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| ✓                                                | CP | Albus et al, "Staphylococcus Aureus Capsular Types And Antibody Response To Lung Infection In Patients With Cystic Fibrosis", <i>J Clin Microbiol</i> . 1988 Dec; 26(12):2505-9. (Abstract)                                          |   |                        |              |
| ✓                                                | CQ | Macone et al, "Mucoid <i>Escherichia Coli</i> In Cystic Fibrosis", <i>N Engl J Med</i> . 1981 Jun 11;304(24):1445-9. (Abstract)                                                                                                      |   |                        |              |
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|                                                                                                          |                 | First Named Inventor                                                                                                                                                                                                       | Yacobi-Zeevi |
|                                                                                                          |                 | Group Art Unit                                                                                                                                                                                                             | 1633         |
|                                                                                                          |                 | Examiner Name                                                                                                                                                                                                              |              |
| Sheet                                                                                                    | 3               | Of                                                                                                                                                                                                                         | 4            |
|                                                                                                          | DA              | Golberg et al, "An Improved Method For Determining Proteoglycans Synthesized by Chondrocytes in Culture", <i>Connective Tissue Research</i> , 24:255-275, 1990                                                             |              |
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|                                                                                                          | DC              | Sutherland, Ian W., "Structure-Function Relationships in Microbial Exopolysaccharides", <i>Biotech Adv.</i> , 12:393-448, 1994                                                                                             |              |
|                                                                                                          | DD              | Tatnell et al, "Characterisation of Alginates from Mucoid Strains of <i>Pseudomonas Aeruginosa</i> ", <i>Biochem. Soc. Trans.</i> , 24:404S, 1996                                                                          |              |
|                                                                                                          | DE              | Tatnell et al, "Chemical Analysis of Alginates from Mucoid Strains of <i>Pseudomonas Aeruginosa</i> ", <i>Biochem. Soc. Trans.</i> , 22:310S, 1994                                                                         |              |
|                                                                                                          | DF              | Tatnell et al, "Colonisation of Cystic Fibrosis Patients by Non-Mucoid <i>Pseudomonas Aeruginosa</i> - Characterisation of the Alginate from Mucoid Variants", <i>Biochem. Soc. Trans.</i> , 24:406S, 1996                 |              |
|                                                                                                          | DG              | Drigues et al, "Comparative Studies of Lipo polysaccharide and Exopolysaccharide from a Virulent Strain of <i>Pseudomonas Soanacearum</i> and from Three Avirulent Mutants", <i>J Bacteriology</i> , May, 1985, pp 504-509 |              |
|                                                                                                          | DH              | Macone et al, "Mucoid <i>Escherichia Coli</i> in Cystic Fibrosis", <i>New England J Medicine</i> , 304(24):1444S-1449                                                                                                      |              |
|                                                                                                          | DI              | Ofek et al, "Bacterial Adhesion to Cells and Tissue", Chapman & Hall, N.Y., Pub. 1994, pp 114-118, 148-153, 418-418, 420-423                                                                                               |              |
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| Form PTO-1449 (Modified)                                                                          | Atty. Docket No.<br>910/26                | Application No.<br>09/487,716 |
| <b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b><br>(USE SEVERAL SHEETS IF NECESSARY) | Applicant:<br>Maty AYAL-HERSHKOVITZ et al |                               |
|                                                                                                   | Filing Date:<br>January 19, 2000          | Group Art Unit:               |

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U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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FOREIGN PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |           |                                                                                                                                                                                                                   |
|----|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC | <i>mm</i> | Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu Rev Biochem</i> , 58:575-606, 1989                                                                                    |
| AD |           | Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Experimental Cell Research</i> , 20:156-167, 1992                                                            |
| AE |           | Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63:832-840, 1990                                                                    |
| AF |           | Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surface and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90:2013-2021, 1992                                  |
| AG |           | Folkman et al, "A Heparin-Binding Angiogenic Protein-Basic Fibroblast Growth Factor-Is Stored Within Basement Membrane", <i>Am. J. Path.</i> , 130(2):393-400, 1988                                               |
| AH |           | Folkman et al, "Angiogenic Factors", <i>Science</i> , 235:442-447, 1987                                                                                                                                           |
| AI |           | Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-Associated Heparin-Like Molecules", <i>J. Biol. Chem.</i> , 267(8):6093-6098, 1992            |
| AJ |           | Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31:2080-2088, 1992 |
| AK |           | Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev</i> , 71(2):481-539, 1991                                              |
| AL |           | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu Rev Biochem</i> , 60:443-475, 1991                                                                                                           |
| AM |           | Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983                                                                                                |
| AN |           | Matzner et al, "Degradation of Heparan Sulfate in the Subendothelial Extracellular Matrix by a Readily Released Heparanase from Human Neutrophils", <i>J. Clin Invest</i> , 76:1306-1313                          |
| AO | <i>mm</i> | Mollinedo et al, "Major Co-Localization of the Extracellular-Matrix Degradative Enzymes Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem J.</i> , 327:917-923, 1997               |

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation



Form PTO-1449 (Modified)

Atty. Docket No.  
910/26Application No.  
09/487,716

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:  
Maty AYAL-HERSHKOVITZ et alFiling Date:  
January 19, 2000

Group Art Unit

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |                                                                                                                                                                                                                                |
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| BCC | Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's $\beta$ -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J Biol Chem</i> , 266(20):12878-12883, 1991 |
| BD  | Nakajima et al, "Heparanases and Tumor Metastasis", <i>J Cellular Biochem</i> , 36:157-167, 1988                                                                                                                               |
| BE  | Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparan-Derived Di- and Trisaccharides", <i>Science</i> , 268:432-436, 1995                                                                                |
| BF  | Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252:1705-1709, 1991                                                                       |
| BG  | Vlodasky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983                     |
| BH  | Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med Sci</i> , 24:464-470, 1988                                                                                                 |
| BI  | Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-Enriched Remnant Lipoproteins by Cultured Cells", <i>J Biol Chem</i> , 268(4):10160-10167, 1993                        |
| BJ  | Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Molecular and Cellular Aspects of Basement Membranes</i> , Academic Press, Inc. 1993, pp 327-342                                |
| BK  | Wight, TN, "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989                                                                                                                                    |
| BL  |                                                                                                                                                                                                                                |
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                     | Atty. Docket No.<br>910/16                                                                                                                                                                                        |      | Application No.<br>09/260,038 |       |                 |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                 |                     | Applicant:<br>Maty AYAL-HERSHKOVITZ et al                                                                                                                                                                         |      |                               |       |                 |                |
|                                                                                                                                                                                                                                           |                     | Filing Date:<br>March 2, 1999                                                                                                                                                                                     |      | Group Art Unit:<br>1652       |       |                 |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                     |                                                                                                                                                                                                                   |      |                               |       |                 |                |
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| AA                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                   |      |                               |       |                 |                |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                   |      |                               |       |                 |                |
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| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                          |                     |                                                                                                                                                                                                                   |      |                               |       |                 |                |
| AC                                                                                                                                                                                                                                        | mmr                 | Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu Rev Biochem</i> , 58:575-606, 1989                                                                                    |      |                               |       |                 |                |
| AD                                                                                                                                                                                                                                        |                     | Campbell et al, "Heparan Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype". <i>Experimental Cell Research</i> , 20:156-167, 1992                                                            |      |                               |       |                 |                |
| AE                                                                                                                                                                                                                                        |                     | Gordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63:832-840, 1990                                                                    |      |                               |       |                 |                |
| AF                                                                                                                                                                                                                                        |                     | Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surface and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90:2013-2021, 1992                                  |      |                               |       |                 |                |
| AG                                                                                                                                                                                                                                        |                     | Folkman et al, "A Heparin-Binding Angiogenic Protein-Basic Fibroblast Growth Factor-Is Stored Within Basement Membrane", <i>Am. J. Path.</i> , 130(2):393-400, 1988                                               |      |                               |       |                 |                |
| AH                                                                                                                                                                                                                                        |                     | Folkman et al, "Angiogenic Factors", <i>Science</i> , 235:442-447, 1987                                                                                                                                           |      |                               |       |                 |                |
| AI                                                                                                                                                                                                                                        |                     | Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-Associated Heparin-Like Molecules", <i>J. Biol. Chem.</i> , 267(8):6093-6098, 1992            |      |                               |       |                 |                |
| AJ                                                                                                                                                                                                                                        |                     | Ishai-Michaeli et al, "Importance of Size and Sulfation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and Extracellular Matrix", <i>Biochemistry</i> , 31:2080-2088, 1992 |      |                               |       |                 |                |
| AK                                                                                                                                                                                                                                        |                     | Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev</i> , 71(2):481-539, 1991                                              |      |                               |       |                 |                |
| AL                                                                                                                                                                                                                                        |                     | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu Rev Biochem</i> , 60:443-475, 1991                                                                                                           |      |                               |       |                 |                |
| AM                                                                                                                                                                                                                                        |                     | Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983                                                                                                |      |                               |       |                 |                |
| AN                                                                                                                                                                                                                                        |                     | Matzner et al, "Degradation of Heparan Sulfate in the Subendothelial Extracellular Matrix by a Readily Released Heparanase from Human Neutrophils", <i>J. Clin Invest</i> , 76:1306-1313                          |      |                               |       |                 |                |
| AO                                                                                                                                                                                                                                        | mmr                 | Mollinedo et al, "Major Co-Localization of the Extracellular-Matrix Degradative Enzymes: Heparanase and Gelatinase in Tertiary Granules of Human Neutrophils", <i>Biochem J.</i> , 327:917-923, 1997              |      |                               |       |                 |                |
| EXAMINER                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                   |      | mmr                           |       | DATE CONSIDERED |                |
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| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. |                     |                                                                                                                                                                                                                   |      |                               |       |                 |                |

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                     | Atty. Docket No.<br>910/16                                                                                                                                                                                                     |      | Application No.<br>09/260,038 |       |               |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                 |                     | Applicant:<br>Maty AYAL-HERSHKOVITZ et al                                                                                                                                                                                      |      |                               |       |               |                |
|                                                                                                                                                                                                                                           |                     | Filing Date:<br>March 2, 1999                                                                                                                                                                                                  |      | Group Art Unit:<br>1652       |       |               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
|                                                                                                                                                                                                                                           | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER                                                                                                                                                                                                             | DATE | NAME                          | CLASS | SUB-<br>CLASS | FILING<br>DATE |
| BA                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
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| OTHER ART (Including Author, Title, Date, Pertinent Pages, E.c.)                                                                                                                                                                          |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
| BCC                                                                                                                                                                                                                                       | mp                  | Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's $\beta$ -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J Biol Chem</i> , 266(20):12878-12883, 1991 |      |                               |       |               |                |
| BD                                                                                                                                                                                                                                        | V                   | Nakajima et al, "Heparanases and Tumor Metastasis", <i>J Cellular Biochem</i> , 30:157-167, 1988                                                                                                                               |      |                               |       |               |                |
| BE                                                                                                                                                                                                                                        |                     | Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparin-Derived Di- and Trisaccharides", <i>Science</i> , 268:432-436, 1995                                                                                |      |                               |       |               |                |
| BF                                                                                                                                                                                                                                        |                     | Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252:1705-1709, 1991                                                                       |      |                               |       |               |                |
| BG                                                                                                                                                                                                                                        |                     | Vlodasky et al, "Lymphoma Cell Mediated Degradation of Sulfated Proteoglycans in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Res.</i> , 43: 2704-2711, 1983                     |      |                               |       |               |                |
| BH                                                                                                                                                                                                                                        |                     | Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis", <i>Israel J. Med Sci</i> , 24:464-470, 1988                                                                                                 |      |                               |       |               |                |
| BI                                                                                                                                                                                                                                        |                     | Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-Enriched Remnant Lipoproteins by Cultured Cells", <i>J Biolog Chem</i> , 268(4):10160-10167, 1993                      |      |                               |       |               |                |
| BJ                                                                                                                                                                                                                                        |                     | Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Molecular and Cellular Aspects of Basement Membranes</i> , Academic Press, Inc. 1993, pp 327-342                                |      |                               |       |               |                |
| BK                                                                                                                                                                                                                                        | mp                  | Wight, TN, "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989                                                                                                                                    |      |                               |       |               |                |
| BL                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
| BM                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                |      |                               |       |               |                |
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| EXAMINER                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                                |      | DATE CONSIDERED 11/20/00      |       |               |                |
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-1449 (Modified)

Atty. Docket No.

Application No.

09/260,037

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:

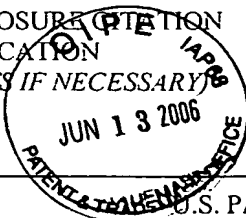
Oron YACOBY-ZEEVI et al

Filing Date:

March 2, 1999

Group Art Unit:

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## U.S. PATENT DOCUMENTS

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |                                     |                                                                                                                                                                                                                                                                                                                                                                |
|----|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC |                                     | Murry et al, "The Extracellular Matrix", found in "Biochemistry", Chap. 57, pp 667-685                                                                                                                                                                                                                                                                         |
| AD |                                     | Selvan et al, "Heparan Sulfate in Immune Responses", <i>Ann. NY Acad. Sci.</i> , 777: 127-139, 1996                                                                                                                                                                                                                                                            |
| AE | <input checked="" type="checkbox"/> | Wight, TN, "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989                                                                                                                                                                                                                                                                   |
| AF | <input checked="" type="checkbox"/> | Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion Metastasis</i> , 12:112-127, 1992                                                                                                                                                       |
| AG | <input checked="" type="checkbox"/> | Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36(2): 157-167, 1988                                                                                                                                                                                                                                                             |
| AH | <input checked="" type="checkbox"/> | Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion Metastasis</i> , 14:290-302, 1994-5                                                                                                                                                                                                                 |
| AI | <input checked="" type="checkbox"/> | Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991                                                                                                                                                                                               |
|    | <input checked="" type="checkbox"/> | Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins", <i>Cell. Molec. Aspects</i> , 1993, Academic Press, Inc. Pp 327-343                                                                                                                                                                                                |
| AK | <input checked="" type="checkbox"/> | Thunberg et al, "The Molecular Size of the Antithrombin-Binding Sequence in Heparin", <i>FEBS Lett.</i> , 117(1): 203-206, 1980                                                                                                                                                                                                                                |
| AL |                                     | Prockop, DJ, "Marrow Stromal Cells as Stem Cells for Nonhematopoietic Tissues", <i>Science</i> , 276: 71-74, 1997; Krivit et al, "Microglia: The Effector cell for reconstitution of the Central Nervous System Following Bone Marrow Transplantation for Lysosomal and Peroxisomal Storage Diseases", <i>Cell Transplant</i> , 4(4): 385-392, 1995 (Abstract) |
| AM |                                     | Lazarus et al, "Ex Vivo Expansion and Subsequent Infusion of Human Bone Marrow-Derived Stromal Precursor Cells (Mesenchymal Progenitor cells): Implications for Therapeutic Use", <i>Bone Marrow Transplantation</i> , 16: 557-564, 1995                                                                                                                       |
| AN |                                     | Robey et al, "Biochemical Characterization of Marrow Stromal Fibroblasts", <i>6th Int'l. Conf. On Molec. Biol. And Pathology of Matrix, Session IV</i> ,                                                                                                                                                                                                       |
| AO |                                     |                                                                                                                                                                                                                                                                                                                                                                |

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INFORMATION DISCLOSURE CITATION  
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Applicant:

Oron YACOBY-ZEEVI et al

Filing Date:

March 2, 1999

Group Art Unit:

1643

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |                                                                                                                                                                                                   |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BC | Pomahac et al, "Tissue Engineering of Skin", <i>Crit Rev Oral Biol Med</i> , 9(3): 313-344, 1998 (abstract)                                                                                       |
| BD | Benathan et al, "Living Epidermal and Dermal Substitutes for Treatment of Severely Burned Patients", <i>Rev Med Suisse Romande</i> , 118(2): 149-153, 1998 (Abstract- art in French)              |
| BE | Wang et al, Basic Fibroblast Growth Factor Enhances Bone-Graft Incorporation: Dose and Time Dependence in Rats", <i>J. Orthop Res</i> , 14(2): 316-23, 1996 (abstract)                            |
| BF | Duffy et al, "Maximizing Flap Survival in a Prefabrication Model Using Exogenous and Endogenous bFGF: A New Approach", <i>Microsurgery</i> , 17(4): 176-179, 1996 (abstract)                      |
| EG | Garner WL, "Epidermal Regulation of Dermal Fibroblast Activity", <i>Plast Reconstr Surg</i> , 102(1): 135-139, 1998 (abstract)                                                                    |
| EH | Raghuathan et al, Cultured Epithelial Autografts: Diving from Surgery into Matrix Biology", <i>Pediatr Surg Int</i> , 12(7): 478-483, 1997 (abstract)                                             |
| BI | Myers et al, "Transplantation of Keratinocytes in the Treatment of Wounds", <i>Am J Surg</i> , 170(1): 75-83, 1995 (abstract)                                                                     |
| BJ | Kawaja et al, "Employment of Fibroblasts for Gene Transfer: Applications for Grafting into the Central Nervous System", <i>Genet Eng (NY)</i> , 13: 205-220, 1991 (abstract)                      |
| EK | Maillard et al, Pre-Treatment with Elastase Improves the Efficiency of Percutaneous Adenovirus-Mediated Gene Transfer to the Arterial Media", <i>Gene Therapy</i> , 5: 1023-1030, 1998            |
| EL | Wang, JS, "Basic Fibroblast Growth Factor for Stimulation of Bone Formation on Osteoinductive or Conductive Implants", <i>Acta Orthop Scand Suppl</i> , 269: 1-33, 1996 (abstract)                |
| BM | Wang, JS, "Basic Fibroblast Growth Factor Infused at Different Times During Bone Graft Incorporation. Titanium Chamber Study in Rats", <i>Acta Orthop Scand</i> , 67(3): 229-236, 1996 (abstract) |
| BN | Inui et al, "Local Application of Basic Fibroblast Growth Factor Minipellet Induces the Healing of Segmental Bony Defects in Rabbits",                                                            |
| BO |                                                                                                                                                                                                   |

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DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

09/250,037

Applicant:  
Oron YACOBY-ZEEVI et al

Filing Date:  
March 2, 1999

Group Art Unit:  
1642

U.S. PATENT DOCUMENTS

|     | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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| C-E |  | Aspenberg et al, "Stimulates Bone Formation. Bone Induction Studied in Rats", <i>Acta Orthop Scand</i> , 60(4): 473-476, 1989 (abstract)                                                          |
| C-F |  | Aspenberg et al, "Dose-Dependent Stimulation of Bone Induction by Basic Fibroblast Growth Factor in Rats", <i>Acta Orthop Scand</i> , 62(5): 481-484, 1991 (abstract)                             |
| CG  |  | Matoba et al, "Evaluation Of Omental Implantation for Perforated Gastric Ulcer Therapy: Findings in a Rat Model", <i>J Gastroenterol</i> , 31(6): 777-784, 1996 (abstract)                        |
| CH  |  | Chleboun et al, "The Development and Enhancement of the Collateral Circulation in an Animal Model of Lower Limb Ischaemia", <i>Aust NZ Surg</i> , 64(3): 202-207, 1994 (abstract)                 |
| CI  |  | Aplin, JD, "Adhesion Molecules in Implantation", <i>Rev Reprod</i> , 2(2): 84-93, 1997                                                                                                            |
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| CK  |  | Burrows et al, "Trophoblast Migration During Human Placental Implantation" <i>Hum Reprod Update</i> , 2(4): 307-321, 1996                                                                         |
| CL  |  | Bischof et al, "The Regulation of Endometrial and Trophoblastic Metalloproteinases During Blastocyst Implantation", <i>Contracept Fertil Sex</i> , (art in French) 22(1): 48-51, 1994 (abstract)  |
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Atty. Docket No.

Application No.

09/250,037

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:

Oron YACOBY-ZEEVI et al

Filing Date:

March 2, 1999

Group Art Unit:

1643

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## FOREIGN PATENT DOCUMENTS

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| DI |  | Freeman et al, "Human Platelet Heparanase: Purification, characterization and Catalytic Activity", <i>Biochem J.</i> , 330: 1341-1350, 1998                                                               |
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| DK |  |                                                                                                                                                                                                           |
| DL |  |                                                                                                                                                                                                           |
| DM |  |                                                                                                                                                                                                           |
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Modified)

Atty. Docket No.  
910/12Application No.  
09/186,200

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT  
Tuvia PERETZ et al

Filing Date

Group Art Unit

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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## FOREIGN PATENT DOCUMENTS

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|    |  |                    |      |         |       |           | YES         | NO |
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| AD | Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions and Role in Physiological Processes", <i>Physiol. Rev.</i> , 71:481-539, 1991 20437                                                                         |
| AE | Wight et al, "Cell Biology Of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989 20437                                                                                                                                        |
| AF | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991 20437                                                                                                                          |
| AG | Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991 20437                                                                                                                          |
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| AI | Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion &amp; Metastasis</i> , 12: 112-127, 1992 20437                      |
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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                                     |                                                                                                                                                                                                                                                      |      | Atty. Docket No.<br>910/12      |       | Application No.<br>05/186,200 |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                 |                                     |                                                                                                                                                                                                                                                      |      | APPLICANT<br>Tuvia PERETZ et al |       |                               |                |
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| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                                                      |      |                                 |       |                               |                |
|                                                                                                                                                                                                                                           | EXAMINER<br>INITIAL                 | DOCUMENT<br>NUMBER                                                                                                                                                                                                                                   | DATE | NAME                            | CLASS | SUB-<br>CLASS                 | FILING<br>DATE |
| BA                                                                                                                                                                                                                                        |                                     |                                                                                                                                                                                                                                                      |      |                                 |       |                               |                |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                                     |                                                                                                                                                                                                                                                      |      |                                 |       |                               |                |
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| BB                                                                                                                                                                                                                                        |                                     |                                                                                                                                                                                                                                                      |      |                                 |       |                               |                |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                          |                                     |                                                                                                                                                                                                                                                      |      |                                 |       |                               |                |
| BC                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastasis by Blocking Tumor Cell-Derived Heparanase", <i>Int. J. Cancer</i> , 40: 511-517, 1987 20432                                                                           |      |                                 |       |                               |                |
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| BF                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Campbell et al, "Heparin Sulfate-Degrading Enzymes Induce Modulation of Smooth Muscle Phenotype", <i>Exp. Cell Res.</i> , 200: 156-167, 1992 20437                                                                                                   |      |                                 |       |                               |                |
| BG                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Heparinoid Inhibitors of T Lymphocyte Heparanase", <i>J. Clin. Invest.</i> , 83: 752-756, 1989 20439               |      |                                 |       |                               |                |
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| BJ                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Hudson, PJ, "Recombinant Antibody Fragment", <i>Curr. Opin. Biotech.</i> , 4: 395-400, 1998 20442                                                                                                                                                    |      |                                 |       |                               |                |
| BK                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Schoepe et al, "Neutralization of Hemolytic and Mouse Lethal Activities of C. Perfringens Alpha-Toxin Need Simultaneous Blockage of Two Epitopes by Monoclonal Antibodies", <i>Microbiol. Pathogenesis</i> , 23: 1-10, 1997 20443                    |      |                                 |       |                               |                |
| BL                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Chiba et al, "Generation of Neutralizing Antibody to the Reverse Transcriptase of Human Immunodeficiency Virus Type 1 by Immunizing of Mice with an Infectious Vaccinia Virus Recombinant", <i>J. Immunological Methods</i> , 207: 53-60, 1997 20444 |      |                                 |       |                               |                |
| BM                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> | Wong, JF, "Monoclonal Antibodies: Therapeutic Applications Grow in Promise and Number", <i>Genetic Engineering News</i> , July, 1998, pp 23, 49 20445                                                                                                |      |                                 |       |                               |                |
| EXAMINER                                                                                                                                                                                                                                  |                                     |                                                                                                                                                                                                                                                      |      | DATE CONSIDERED                 |       |                               |                |
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| Form PTO-1449 (Modified)                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                          |      | Atty. Docket No.<br>910/12      |       | Application No.<br>09/186,200 |                |
| <b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b><br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                           |                     |                                                                                                                                                                                                          |      | APPLICANT<br>Tuvia PERETZ et al |       |                               |                |
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| <b>U.S. PATENT DOCUMENTS</b>                                                                                                                                                                                                                |                     |                                                                                                                                                                                                          |      |                                 |       |                               |                |
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| CH                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                                          |      |                                 |       |                               |                |
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| CM                                                                                                                                                                                                                                          |                     |                                                                                                                                                                                                          |      |                                 |       |                               |                |
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Modified)  
DISCLOSURE CITATION  
AN APPLICATION  
(SEVERAL SHEETS IF NECESSARY)

Atty. Docket No  
910/10

Application No.  
09/140,888

Applicant:  
Oron YACOBY-ZEEVI

Filing Date:  
August 27, 1998

Group Art Unit:  
1633

U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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| AO |  |                                                                                                                                                                                                                         |  |  |  |  |  |  |
| AP |  |                                                                                                                                                                                                                         |  |  |  |  |  |  |

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|                                                                                                                           | Applicant:<br>Oron YACOBY-ZEEVI |                               |
|                                                                                                                           | Filing Date:<br>August 27, 1998 | Group Art Unit:<br>1633       |

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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| BA |                     |                    |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|   |  | DOCUMENT<br>NUMBER | DATE    | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |    |
|---|--|--------------------|---------|---------|-------|-----------|-------------|----|
|   |  |                    |         |         |       |           | YES         | NO |
| C |  | 06197760           | 7/19/94 | JP      |       |           |             |    |

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|    |  |                                                                                                                                                                                                                                                                                                             |
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| BD |  | Pier, G.B., "Rationale for Development of Immunotherapies that Target Mucoïd <i>Pseudomonas Aeruginosa</i> Infection in Cystic Fibrosis Patients", <i>Behring Inst Mitt</i> , 98:350-360, 1997 (Abstract)                                                                                                   |
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| BH |  | Pier et al, "How Mutant CFTR May Contribute to <i>Pseudomonas Aeruginosa</i> Infection in Cystic Fibrosis", <i>Am J Respir Crit Care Med</i> , 154(4): S175-S182, 1996 (Abstract)                                                                                                                           |
| BI |  | Pier et al, "Cystic Fibrosis Transmembrane Conductance Regulator is an Epithelial Cell Receptor for Clearance of <i>Pseudomonas Aeruginosa</i> from the Lung", <i>Proc Natl Acad Sci USA</i> 94(22): 12088-93, 1997 (Abstract)                                                                              |
| BJ |  | Boucher et al, "Mucoïd <i>Pseudomonas Aeruginosa</i> in Cystic Fibrosis: Characterization of Muc Mutations in Clinical Isolates and Analysis of Clearance in a Mouse Model of Respiratory Infection", (Abstract) no further information given. <i>Infect. Immun.</i> 1997 Sep., 65(9): 3938-3946.           |
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| BN |  |                                                                                                                                                                                                                                                                                                             |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 605: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)

Atty. Docket No.  
910/10Application No.  
09,140,888

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:  
Oron YACOBY-ZEEVIFiling Date:  
August 27, 1998Group Art Unit:  
16:3

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

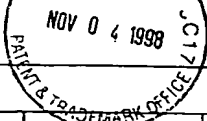
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| CA | Mrsny et al, "Addition of a Bacterial Alginate Lyase to Purulent CF Sputum in vitro can Result in the Disruption of Alginate and Modification of Sputum Viscoelasticity", <i>Pul Pharmacol</i> , 7(6): 357-366, 1994 (Abstract)                                                                          |
| CB | Wiils et al, "Short-Term Recombinant Human Dnase in Bronchiectasis. Effect on Clinical State and in vitro Sputum Transportability", (Abstract) no further information.                                                                                                                                   |
| CC | Cai et al, "Comparison of Sputum Processing Techniques in Cystic Fibrosis", <i>Pediatr Pulmonol</i> , 22(6): 402-407, 1996 (Abstract)                                                                                                                                                                    |
| CD | Randall et al, "Distribution of DNA and Alginate in Purulent Cystic Fibrosis Sputum: Implications to Pulmonary Targeting Strategies", <i>J Drug Therapy</i> , 4(4): 233-243, 1996                                                                                                                        |
| CE | Hatch et al, "Alginate Lyase Promotes Diffusion of Aminoglycosides Through the Extracellular polysaccharide of Mucoid <i>Pseudomonas Aeruginosa</i> ", <i>Antimicrob Agents Chemother</i> , 42(4): 974-977, 1998 (Abstract)                                                                              |
| CF | Speert et al, "Modulation of Macrophage Function for Defense of the Lung against <i>Pseudomonas Aeruginosa</i> ", <i>Behring Inst Mitt</i> , 98: 274-282, 1997 (Abstract)                                                                                                                                |
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| CL | Hsueh et al, "Invasive <i>Streptococci Pneumoniae</i> Infection Associated with Rapidly Fatal Outcome in Taiwan", <i>J Formos Med Assoc</i> , 95(5):364-371, 1996 (Abstract)                                                                                                                             |
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| CO | Nilsson et al, "The Role of Staphylococcal Polysaccharide Microcapsule Expression in Septicemia and Septic Arthritis", <i>Infect Immun</i> , 65(10): 4216-21, 1997 (Abstract)                                                                                                                            |
| CP | Wessels et al, "Effects on Virulence of Mutations in a Locus Essential for Hyaluronic Acid Capsule Expression in Group A Streptococci", <i>Infect Immun</i> , 62(2): 433-441, 1994 (Abstract)                                                                                                            |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

49 (Modified)

Atty. Docket No.  
910/8Application No.  
09/113, 68CITATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)Applicant:  
Hanna BEN ARTZI et alFiling Date:  
July 10, 1998Group or Unit:  
1652-157

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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| AA |                     |                    |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

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| AB |                    |      |         |       |           |             |    |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |     |                                                                                                                                                                                                                                          |
|----|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC | JAL | Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Cell Biology</i> , 4: 93-801, 1992                                                                                                            |
| AD |     | Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological processes", <i>Physiological Review</i> , 71(2):481-539, 1981                                                                  |
| AE |     | Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9(1):1-20, 1989                                                                                                                                         |
| AF |     | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991                                                                                                                              |
| AG |     | Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991                                                                                                                              |
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| AJ |     | Vlodavsky et al, "Inhibition of Tumor Metastasis by Heparanase Inhibiting Species of Heparin", <i>Invasion Metastasis</i> , 14:290-302, 1994-95.                                                                                         |
|    |     | Nakajima et al, "Heparanase and Tumor Metastasis", <i>J. Cellular Biochem.</i> , 36:157-167, 1988.                                                                                                                                       |
| AL |     | Liotta et al, "Tumor Invasion and the Extracellular Matrix", <i>Laboratory Investigation</i> , 49(6):636-647, 1983.                                                                                                                      |
| AM |     | Vlodavsky et al, "Lymphocyte Cell-Mediated Degradation of Sulfated Proteoglycan in the Subendothelial Extracellular Matrix: Relationship to Tumor Cell Metastasis", <i>Cancer Research</i> , 43: 2704-2711, 1983                         |
| AN |     | Vlodavsky et al, "Involvement of Heparanase in Tumor Metastasis and Angiogenesis" <i>Isr. Med. Sci.</i> , 24: 464-470, 1983                                                                                                              |
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EXAMINER












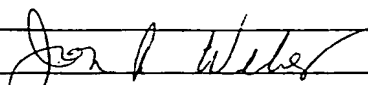
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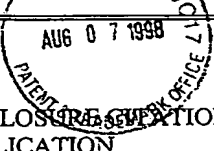
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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                    | Atty. Docket No.<br>910/8           |         | Application No.<br>09/113,168           |               |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                 |                     |                                                                                                                                                                                                                    | Applicant:<br>Hanna BEN ARTZI et al |         |                                         |               |                |
|                                                                                                                                                                                                                                           |                     |                                                                                                                                                                                                                    | Filing Date:<br>July 10, 1998       |         | Group A Unit:<br><del>1652</del> /6: 57 |               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                     |                                                                                                                                                                                                                    |                                     |         |                                         |               |                |
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| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                    |                                     |         |                                         |               |                |
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| BB                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                    |                                     |         |                                         |               |                |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                          |                     |                                                                                                                                                                                                                    |                                     |         |                                         |               |                |
| BC                                                                                                                                                                                                                                        |                     | Vlodavsky et al, "Extracellular Sequestration and Release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991                                                   |                                     |         |                                         |               |                |
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| BJ                                                                                                                                                                                                                                        |                     | Nagasawa et al, "Solvolytic Desulfation of Glycosaminoglycuronan Sulfates With Dimethyl Sulfoxide Containing Water or Methanol", <i>Carbohydrate Research</i> , 58: 47-55, 1977                                    |                                     |         |                                         |               |                |
| BK                                                                                                                                                                                                                                        |                     | Matia Bar-New et al, "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparin Sulfate by Non-Anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987                             |                                     |         |                                         |               |                |
| BL                                                                                                                                                                                                                                        |                     | Gospodarowicz et al, "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 75-89, 1977                                    |                                     |         |                                         |               |                |
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| BN                                                                                                                                                                                                                                        |                     | Vlodavsky et al, "Extracellular Matrix-Resident Growth Factors and Enzymes: Possible Involvement in Tumor Metastasis and Angiogenesis", <i>Cancer and Metastasis Rev.</i> , 9: 203-226, 1990                       |                                     |         |                                         |               |                |
| EXAMINER                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                    |                                     |         | DATE CONSIDERED                         |               |                |
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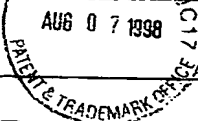
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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                   | Atty. Docket No.<br>910/8           |         | Application No.<br>09/113,158 |               |                |
| <b>INFORMATION DISCLOSURE CITATION<br/>IN AN APPLICATION</b><br><i>(USE SEVERAL SHEETS IF NECESSARY)</i>                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                   | Applicant:<br>Hanna BEN ARTZI et al |         |                               |               |                |
|                                                                                                                                                                                                                                           |                                                                                     |                                                                                                                                                                                                                                                                                   | Filing Date:<br>July 10, 1998       |         | Group Art. Unit:<br>1652-1657 |               |                |
| <b>U.S. PATENT DOCUMENTS</b>                                                                                                                                                                                                              |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
|                                                                                                                                                                                                                                           | EXAMINER<br>INITIAL                                                                 | DOCUMENT<br>NUMBER                                                                                                                                                                                                                                                                | DATE                                | NAME    | CLASS                         | SUB-<br>CLASS | FILING<br>DATE |
| CA                                                                                                                                                                                                                                        |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
| <b>FOREIGN PATENT DOCUMENTS</b>                                                                                                                                                                                                           |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
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| CB                                                                                                                                                                                                                                        |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
| <b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>                                                                                                                                                                   |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
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| CD                                                                                                                                                                                                                                        |    | Benezra et al, "Antiproliferative Activity to Vascular Smooth Muscle Cells and Receptor Binding of Heparin-Mimicking Polyaromatic Anionic Compounds", <i>Arteriosclerosis and Thrombosis</i> , 14(12): 1992-1999, 1993                                                            |                                     |         |                               |               |                |
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| CG                                                                                                                                                                                                                                        |  | Benezra et al, "Reversal of Fibroblast Growth Factor-mediated Autocrine Cell Transformation by Aromatic Anionic Compounds", <i>Cancer Research</i> , 52:5656-5662, 1992.                                                                                                          |                                     |         |                               |               |                |
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| CK                                                                                                                                                                                                                                        |  | Yayon et al, "Cell Surface, Heparin-like Molecules are Required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991.                                                                                                    |                                     |         |                               |               |                |
| CL                                                                                                                                                                                                                                        |  | Aviezer et al, "Differential Structural Requirements of Heparin and Heparan Sulfate Proteoglycans That Promote Binding of Basic Fibroblast Growth Factor to its Receptor", <i>J. Biol. Chem.</i> , 269(1):114-121, 1994.                                                          |                                     |         |                               |               |                |
| CM                                                                                                                                                                                                                                        |  | Bartlett et al, "Comparative Analysis of the Ability of Leucocytes, Endothelial Cells, and Platelets to Degrade the Subendothelial Basement Membrane: Evidence for Cytokine Dependence and Detection of a Novel Sulfatase", <i>Immunology and Cell Biol.</i> , 73: 113-124, 1995. |                                     |         |                               |               |                |
| CN                                                                                                                                                                                                                                        |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |
| EXAMINER                                                                                                                                               |                                                                                     | DATE CONSIDERED 30 Sep 99                                                                                                                                                                                                                                                         |                                     |         |                               |               |                |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant. |                                                                                     |                                                                                                                                                                                                                                                                                   |                                     |         |                               |               |                |



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| Form PTO-1449 (Modified)                                                                                                                                                                                                                 |                     | Atty. Docket No.<br>910/8           |      | Application No.<br>09/113,158                                                                                                                                                                                                                        |       |               |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                |                     | Applicant:<br>Hanna BEN ARTZI et al |      |                                                                                                                                                                                                                                                      |       |               |                |
|                                                                                                                                                                                                                                          |                     | Filing Date:<br>July 10, 1998       |      | Group Art Unit:<br>1652-6751                                                                                                                                                                                                                         |       |               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                    |                     |                                     |      |                                                                                                                                                                                                                                                      |       |               |                |
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| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                         |                     |                                     |      |                                                                                                                                                                                                                                                      |       |               |                |
| DB                                                                                                                                                                                                                                       |                     |                                     |      | Nakajima et al, "A Solid-Phase Substrate of Heparanase: Its Application to Assay of Human Melanoma for Heparan Sulfate Degradative Activity", <i>Analytical Biochemistry</i> , 157: 162-171, 1986.                                                   |       |               |                |
| DC                                                                                                                                                                                                                                       |                     |                                     |      | Oosta et al, "Purification and Properties of Human Platelet Heparitanase", <i>J. Biol. Chem.</i> , 257(19): 11249-11255, 1982.                                                                                                                       |       |               |                |
| DD                                                                                                                                                                                                                                       |                     |                                     |      | Sewell et al, "Human Mononuclear Cells Contain an Endoglycosidase Specific for Heparan Sulfate Glycosaminoglycan Demonstrable with the Use of a Specific Solid-Phase Metabolically Radiolabelled Substrate", <i>Biochem J.</i> , 264: 777-783, 1989. |       |               |                |
| DE                                                                                                                                                                                                                                       |                     |                                     |      | Freeman et al, "A Rapid Quantitative Assay for the Detection of Mammalian Heparanase Activity", <i>Biochem J.</i> , 325: 229-237, 1997.                                                                                                              |       |               |                |
| DF                                                                                                                                                                                                                                       |                     |                                     |      | Mullings et al, "New Reducing Sugar Assay for the Study of Cellulases", <i>Enzyme Microb. Technol.</i> , 6:491-496, 1984.                                                                                                                            |       |               |                |
| DG                                                                                                                                                                                                                                       |                     |                                     |      | Taylor et al, "A colorimetric Method for the Quantitation of Uronic Acids and a Specific Assay for Galacturonic Acid", <i>Analytical Biochemistry</i> , 201: 190-196, 1992.                                                                          |       |               |                |
| DH                                                                                                                                                                                                                                       |                     |                                     |      | Linhardt, R.J., "Large Electrophoresis of Oligosaccharides", <i>Methods in Enzymology</i> , 230: 265-280, 1994.                                                                                                                                      |       |               |                |
| DI                                                                                                                                                                                                                                       |                     |                                     |      | Basu et al, "Analysis of Glycosphingolipids by Fluorophore-Assisted Carbohydrate Electrophoresis Using Ceramide Glycanase from <i>Mercenaria mercenaria</i> ", <i>Analytical Biochemistry</i> , 222: 271-274, 1994.                                  |       |               |                |
| DJ                                                                                                                                                                                                                                       |                     |                                     |      | Jackson, P., "The Use of Polyacrylamide-gel Electrophoresis for the High-Resolution of Separation of Reducing Saccharides Labelled with the Fluorophore 8-aminonaphthalene-1,3,6-trisulphonic Acid", <i>Biochem J.</i> , 270: 705-713, 1990.         |       |               |                |
| DK                                                                                                                                                                                                                                       |                     |                                     |      | Coquet et al, "Applications of a Post-column Fluorogenic Reaction in Liquid Chromatography for the Determination of Glucose and Fructose in Biological Matrices", <i>Analytica Chimica Acta</i> , 252: 173-179, 1991.                                |       |               |                |
| DL                                                                                                                                                                                                                                       |                     |                                     |      | DeVouge et al, "Immunoselection of GRP94/Endoplasmic Reticulum From a KNRK Cell-Specific $\lambda$ gt11 Library Using Antibodies Directed Against a Putative Heparanase Amino-Terminal Peptide", <i>Int. J. Cancer</i> , 56: 286-294, 1994.          |       |               |                |
| DM                                                                                                                                                                                                                                       |                     |                                     |      | Zsolnai et al, "Directional Immobilization of Heparin onto the Nonporous Surface of Polystyrene Microplates", <i>Biotechniques</i> , 23(3): 382-385, 1997.                                                                                           |       |               |                |
| DN                                                                                                                                                                                                                                       |                     |                                     |      | Bellott et al, "Closing the Loop in Combinatorial Chemistry", <i>European Pharmaceutical Contractor</i> , Aug., 1997.                                                                                                                                |       |               |                |
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| EXAMINER                                                                                                                                                                                                                                 |                     | DATE CONSIDERED                     |      | 30 Sep 97                                                                                                                                                                                                                                            |       |               |                |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                     |                                     |      |                                                                                                                                                                                                                                                      |       |               |                |

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                  |                     |                                                                                                                                                     |      | Atty. Docket No.<br>910/4       |       | Application No.<br>09/046,475 |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                 |                     |                                                                                                                                                                                                                                     |      | Applicant:<br>Oron Yacoby ZEEVI |       |                               |                |
|                                                                                                                                                                                                                                           |                     |                                                                                                                                                                                                                                     |      | Filing Date:<br>March 25, 1998  |       | Group Art Unit:<br>1652       |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                     |                     |                                                                                                                                                                                                                                     |      |                                 |       |                               |                |
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| AE                                                                                                                                                                                                                                        |                     |                                                                                                                                                                                                                                     |      |                                 |       |                               |                |
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| AF                                                                                                                                                                                                                                        | RP                  | Allen, E.D., "Opportunities for the Use Aerosolized $\alpha_1$ - Antitrypsin for the Treatment of Cystic Fibrosis", <i>Chest</i> , 110: 256S - 260S, 1996                                                                           |      |                                 |       |                               |                |
| AG                                                                                                                                                                                                                                        | RP                  | Konstan et al, "Current Understanding of the Inflammatory Process in Cystic Fibrosis", <i>Pediatric Pulmonology</i> , 24:137-142, 1997                                                                                              |      |                                 |       |                               |                |
| AH                                                                                                                                                                                                                                        | RP                  | Dasgupta et al, "Reduction in Viscoelasticity in Cystic Fibrosis Sputum <i>In Vitro</i> Using Combined Treatment with Nacystelyn and rhDNase", <i>Pediatric Pulmonology</i> , 22:161-166, 1996                                      |      |                                 |       |                               |                |
| AI                                                                                                                                                                                                                                        | RP                  | Crystal, R.G., Gene Therapy Strategies for Pulmonary Disease", <i>Am. J. Medicine</i> , 92(supp 64): 6A-44S - 6A-52S (June 1992)                                                                                                    |      |                                 |       |                               |                |
| AJ                                                                                                                                                                                                                                        | RP                  | Lieberman, J., "The Appropriate Use of Mucolytic Agents, <i>Am. J. Medicine</i> , 49(1): 1-4, 1970                                                                                                                                  |      |                                 |       |                               |                |
| AK                                                                                                                                                                                                                                        | RP                  | Boat et al, "Biochemistry of Airway Mucus Secretions", <i>Fed Proc</i> , 39:13: 3067-3074, 1980 (Abstract)                                                                                                                          |      |                                 |       |                               |                |
| AL                                                                                                                                                                                                                                        | RP                  | Mohapatra et al, "Alteration of Sulfation of Glycoconjugates, but not Sulfate Transport and Intracellular Inorganic Sulfate Content in Cystic Fibrosis Airway Epithelial Cells", <i>Pediatr Res</i> , 38(1): 42-48, 1995 (Abstract) |      |                                 |       |                               |                |
| AM                                                                                                                                                                                                                                        | RP                  | Boat et al, "Increased Sulfation of Glycoconjugates by Cultured Nasal Epithelial Cells from Patients with Cystic Fibrosis", <i>J. Clin Invest.</i> , 84(1):68-72, 1989 (Abstract)                                                   |      |                                 |       |                               |                |
| AN                                                                                                                                                                                                                                        | RP                  | Boat et al, "Epithelial Cell Dysfunction in Cystic Fibrosis: Implications for Airways Disease", <i>Acta Paediatr Scand Suppl</i> , 363:25-29, 1989                                                                                  |      |                                 |       |                               |                |
| AO                                                                                                                                                                                                                                        | RP                  | Welch et al, "Complex Saccharide metabolism in Cystic Fibrosis Fibroblasts", <i>Pediatr Res</i> , 9:698-702, 1975                                                                                                                   |      |                                 |       |                               |                |
| AP                                                                                                                                                                                                                                        | RP                  | Schwartz et al "CpG Motifs in Bacterial DNA Cause Inflammation in the Lower Respiratory Tract", <i>J. Clin. Invest.</i> , 100(1): 68-73, 1997 (Abstract)                                                                            |      |                                 |       |                               |                |
| EXAMINER                                                                                                                                                                                                                                  |                     |                                                                                                                                                                                                                                     |      | DATE CONSIDERED                 |       |                               |                |
| Rebecca Prouty                                                                                                                                                                                                                            |                     |                                                                                                                                                                                                                                     |      | 7-21-99                         |       |                               |                |
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Form PTO-1449 (Modified)

Atty. Docket No.  
910/4Application No.  
09/046,475INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)Applicant:  
Oron Yacoby ZEEVIFiling Date:  
March 25, 1998Group Art Unit:  
1652

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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## FOREIGN PATENT DOCUMENTS

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |                                                                                                                                                                                                                             |
|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BD | RP | Hill et al, "Organ-Specific Over-Sulfation of Glycosaminoglycans and Altered Extracellular Matrix in a Mouse Model of Cystic Fibrosis", <i>Biochem Mol Med</i> , 62(1): 113-122, 1997 (Abstract)                            |
| BE | RP | "Harper's Biochemistry", 24th Ed. Pp 660-685                                                                                                                                                                                |
| BF | RP | Chase et al, "Respiratory Mucous Secretions in Patients with Cystic Fibrosis: Relationship Between Levels of Highly Sulfated Mucin Component and Severity of the Disease", <i>Clinica Chimica Acta</i> , 132: 143-155, 1983 |
| BG | RP | Schwab et al, "Increased Adherence of <i>Staphylococcus Aureus</i> From Cystic Fibrosis Lungs to Airway Epithelial Cells", <i>Am Rev Respir</i> , 148(2): 365-369, 1993 (Abstract)                                          |
| BH | RP | Barghouthi et al, "Nonopsonic Phagocytosis of <i>Pseudomonas Aeruginosa</i> Requires Facilitated Transport of D-Glucose by Macrophages", <i>J. Immunol.</i> , 154(7): 3420-3428, 1995 (Abstract)                            |
| BI | RP | Moser et al, "Chronic <i>Pseudomonas Aeruginosa</i> Lung Infection is more Severe in Th2 Responding BALB/c Mice compared to Th1 Responding C3H/HeN Mice", <i>APMIS</i> , 105(11): 838-842, 1997 (Abstract)                  |
| BJ | RP | Cowley et al, "Mucociliary Clearance in Cystic Fibrosis Knockout Mice Infected with <i>Pseudomonas Aeruginosa</i> ", <i>Eur Respir</i> , 10(10): 2312-2318, 1997 (Abstract)                                                 |
| BK | RP | Zahm et al, "Early Alterations in Airway Mucociliary Clearance and Inflammation of the <i>Lamina Propria</i> in CF Mice", <i>Am J Physiol</i> , 272(3 Pt 1): C853-C859, 1997 (Abstract)                                     |
| BL | RP | Pier et al, "Cystic Fibrosis Transmembrane Conductance Regulator is an Epithelial Cell Receptor for Clearance of <i>Pseudomonas Aeruginosa</i> From the Lung", <i>Proc Natl Acad Sci USA</i> , 94(22): 12088-12093, 1997    |
| BM | RP | Selvan et al, "Heparan Sulfate in Immune Responses", <i>An. NY Acad. Sci.</i> , 797: 127-139, 1996                                                                                                                          |
| BN | RP | Vlodavsky et al, "Expression of Heparanase by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Invasion Metastasis</i> , 12:112-127, 1992                    |
| BO | RP | Nakajima et al, "Heparanases and Tumor Metastasis", <i>J. Cell Biochem.</i> , 36(2): 157-167, 1988                                                                                                                          |

EXAMINER

Rebecca Proulx

DATE CONSIDERED

7-21-99

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

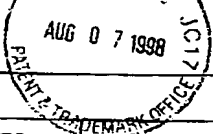
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Application No.  
09/046,475

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)

Applicant:  
Oron Yacoby ZEEVI

Filing Date:  
March 25, 1998

Group Art Unit:  
1652


## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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## FOREIGN PATENT DOCUMENTS

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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |                                                                                                                                                                                                                                                                                                 |
|----|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CC | RP | Thompson et al, "Identification of Chondroitin Sulfate E in Human Lung Mast Cells", <i>J. Immunol.</i> , 140(8): 2708-2713, 1988 (Abstarct)                                                                                                                                                     |
| CD | RP | Giuffre et al, "Monocyte Adhesion to Activated Aortic Endothelium: Role of L-Selectin and Heparan Sulfate Proteoglycans", <i>J Cell Biol</i> , 136(4): 945-956, 1997 (Abstarct)                                                                                                                 |
| CE | RP | Shimada et al, "Involvement of Cell Surface Heparin Sulfate in the Binding of Lipoprotein Lipase to Cultured Bovine Endothelial Cells", <i>J Clinical Invest</i> , 68(4): 995-1002, 1981 (Abstarct)                                                                                             |
| CF | RP | <del>Rayward</del> <del>Nossuli</del> et al, "Chondroitin Sulfate in Sputum from Patients with Cystic Fibrosis and Chronic Bronchitis", <i>Am J Resp Cell &amp; Mol Biol</i> , 5(4): 315-320, 1991                                                                                              |
| CG | RP | Rayward et al, "Heparinase III Exerts Endothelial and Cardioprotective Effects in Feline Myocardial Ischemia-Reperfusion Injury", <i>J. Pharm Exp Ther</i> , 283(3): 1032-1038, 1997 (Abstarct)                                                                                                 |
| CH | RP | Yamaguchi et al, "Neutrophil Elastase Inhibitor Reduces Neutrophil Chemoattractant Production After Ischemia-Reperfusion in Rat Liver", <i>Gastroenterology</i> , 112(2): 551-560, 1997 (Abstract)                                                                                              |
| CI | RP | Matgolies et al, "Identification of a Major Heparin-Precipitable Protein in Human Serum and its Relationship to Cystic Fibrosis", <i>Pediatr Res</i> , 16(3): 181-186, 1982 (Abstract)                                                                                                          |
| CJ | RP | Leong et al, "Different Classes of Proteoglycans Contribute to the Attachment of <i>Borrelia Burgdorferi</i> to Cultured Endothelial and Brain Cells", <i>Infect Immun</i> , 66(3): 994-999, 1998 (Abstract)                                                                                    |
| CK | RP | Asagoe et al, "Effect of Heparin on Infection of Cells by Equine Arteritis Virus", <i>J Vet Med Sci</i> , 59(8): 727-728, 1997 (Abstract)                                                                                                                                                       |
| CL | RP | Krusat et al, "Heparin-Dependent Attachment of Respiratory Syncytial Virus (RSV) to Host Cells", <i>Arch Virol</i> , 142(6): 1247-1254, 1997 (Abstract)                                                                                                                                         |
| CM | RP | Alvarez-Dominguez et al, "Host Cell Heparan Sulfate Proteoglycans Mediate Attachment and Entry of <i>Listeria Monocytogenes</i> , and the Listerial Surface Protein ActA is Involved in Heparan Sulfate Receptor Recognition", <i>Infection &amp; Immunity</i> , 65(1): 78-88, 1997, (aBSTRACT) |
| CN | RP | Hagihara et al, "Inhibitory Effect of Heparin on Red Blood Cell Invasion by <i>Theileria Sergenti</i> Merozoites", <i>Int J Parasitol</i> , 27(5): 535-539 (Abstract) 1997                                                                                                                      |
| CO |    |                                                                                                                                                                                                                                                                                                 |
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Rebecca Pouty

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                 |                     | Atty. Docket No.<br>910/4                                                                                                                                                                                                                   |      | Application No.<br>09/046,475 |       |               |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                                |                     | Applicant<br>Oron Yacoby ZEEVI                                                                                                                                                                                                              |      |                               |       |               |                |
|                                                                                                                                                                                                                                          |                     | Filing Date:<br>March 25, 1998                                                                                                                                                                                                              |      | Group Art Unit:<br>1652       |       |               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
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| DC                                                                                                                                                                                                                                       | RP                  | Shakibaei et al, "Dual Interaction of the Malaria Circumsporozoite Protein with the Low Density Lipoprotein Receptor-Related Protein (LRP) and Heparan Sulfate Proteoglycans", <i>J Exp Med</i> , 184(5): 1699-1711, 1996 (Abstract)        |      |                               |       |               |                |
| DD                                                                                                                                                                                                                                       | RP                  | Inaba et al, "Effect of Heparinon Infection of Cells by Porcine Reproductive and Respiratory Syndrome Virus", <i>Am J Vet Res</i> , 58(5):488-491, 1997 (Abstract)                                                                          |      |                               |       |               |                |
| DE                                                                                                                                                                                                                                       | RP                  | Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997                                                                                         |      |                               |       |               |                |
| DF                                                                                                                                                                                                                                       | RP                  | Gantt et al, "Cell Adhesion to a Motif Shared by the Malaria Circumsporozoite Protein and Thrombospondin is Mediated by its Glycosaminoglycan-Binding Region and not by CSVTCG", <i>J Biol Chem</i> , 272(31): 19205-19213, 1997 (Abstract) |      |                               |       |               |                |
| DG                                                                                                                                                                                                                                       | RP                  | Robert et al, "Chondroitin-4-Sulphaate (Proeoglycane), a receptor for Plasmodium falciparum-Infected Erythrocyte Adherence on Brain Microvascular Endothelial Cells", <i>Res Immunol</i> , 146(6): 383-93, 1995. (Abstract)                 |      |                               |       |               |                |
| DH                                                                                                                                                                                                                                       | RP                  | Herrera et al, "Mediation of <i>Trypanosoma Cruzi</i> Invasion by Heparan Sulfate Receptors on Host Cells and Penetrin Counter-Receptors on the Trypanosomes", <i>Mol &amp; Biochem Parasit</i> , 65: 73-83, 1994                           |      |                               |       |               |                |
| DI                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
| DJ                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
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| DM                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
| CN                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
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| CP                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |
| EXAMINER                                                                                                                                                                                                                                 |                     | Rebecca Pouty                                                                                                                                                                                                                               |      | DATE CONSIDERED 7-21-99       |       |               |                |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                     |                                                                                                                                                                                                                                             |      |                               |       |               |                |

Form PTO-1449 (Modified)

Atty. Docket No.  
910/1Application No.  
08/922,170INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)Applicant:  
Iris PECKER et alFiling Date:  
September 2, 1997

Group A 1 US

RECEIVED  
GROUP 1  
1998  
1652

## U.S. PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE   | NAME        | CLASS     | FILING<br>DATE |
|----|---------------------|--------------------|--------|-------------|-----------|----------------|
| AA | RP                  | 5,362,641          | Nov 94 | Fuks et al  | 435 209   |                |
| AB | RP                  | 5,571,506          | Nov 96 | Regan et al | 424 78.17 |                |
| AC |                     |                    |        |             |           |                |

## FOREIGN PATENT DOCUMENTS

|    |    | DOCUMENT<br>NUMBER | DATE   | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |    |
|----|----|--------------------|--------|---------|-------|-----------|-------------|----|
|    |    |                    |        |         |       |           | YES         | NO |
| AD | RP | WO 9504518         | Jul 94 | PCT     | —     | —         |             |    |
| AE |    |                    |        |         |       |           |             |    |

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |                                                                                                                                                                                                                          |  |  |  |  |  |  |
|----|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| AF | RP | Goshen et al, "Purification and Characterization of Placental Heparanase and its Expression by Cultured Cytotrophoblasts", <i>Molecular Human Reproduction</i> , 2(9): 679-684, 1996                                     |  |  |  |  |  |  |
| AG | RP | Bar-Ner et al, "Inhibition of Heparanase-Mediated Degradation of Extracellular Matrix Heparan Sulphate by Non-anticoagulant Heparin Species", <i>Blood</i> , 70(2): 551-557, 1987                                        |  |  |  |  |  |  |
| AH | RP | Savitsky et al, "Ataxia-Telangiectasia: Structural Diversity of Untranslated Sequences Suggests Complex Post-Transcriptional Regulation of ATM Gene Expression", <i>Nucleic Acids Research</i> , 25(9): 1678-1684 (1997) |  |  |  |  |  |  |
| AI | RP | Haimovitz-Friedman et al, "Activation of Platelet Heparitanase by Tumor Cell Derived Factors", <i>Blood</i> , 78: 789-796, 1991                                                                                          |  |  |  |  |  |  |
| AJ | RP | Gospodarowicz et al, "Stimulation of Corneal Endothelial Cell Proliferation <i>in vitro</i> by Fibroblast and Epidermal Growth Factors", <i>Exp. Eye Res.</i> , 25: 75-89, 1977                                          |  |  |  |  |  |  |
| AK | RP | Ernst et al, "Enzymatic degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. &amp; Molec. Biology</i> , 30(5): 387-444, 1995                                                                                    |  |  |  |  |  |  |
| AL | RP | Zhong-Sheng et al, "Role of Heparan Sulfate Proteoglycans in the Binding and Uptake of Apolipoprotein E-enriched Remnant Lipoproteins by Cultured Cells", <i>J. Biol. Chem.</i> , 268(14): 10160-10167, 1993             |  |  |  |  |  |  |
| AM | RP | R. Ross, "The Pathogenesis of Atherosclerosis: A Perspective for the 1990s", <i>Nature</i> , 362: 801-809, (1993)                                                                                                        |  |  |  |  |  |  |
| AN | RP | 1993 Putnak et al, "A Putative Cellular Receptor for Dengue Viruses", <i>Nature Medicine</i> , 3(8): 828-829, 1997                                                                                                       |  |  |  |  |  |  |
| AO | RP | Cordon-Cardo et al, "Expression of Basic Fibroblast Growth Factor in Normal Human Tissues", <i>Laboratory Investigation</i> , 63(6): 832-840, 1990                                                                       |  |  |  |  |  |  |

EXAMINER

Rebecca Prouty

DATE CONSIDERED

7-21-98

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                |                     | Atty. Docket No.<br>910/1                                                                                                                                                                                                          |      | Applica ion No.<br>08/922 170    |       |               |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                               |                     | Applicant:<br>Iris PECKER et al                                                                                                                                                                                                    |      | REC<br>FEB<br>GROUP 1800<br>1652 |       |               |                |
|                                                                                                                                                                                                                                         |                     | Filing Date:<br>September 2, 1997                                                                                                                                                                                                  |      |                                  |       |               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                   |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
|                                                                                                                                                                                                                                         | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER                                                                                                                                                                                                                 | DATE | NAME                             | CLASS | SUB-<br>CLASS | FILING<br>DATE |
| BA                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
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| BB                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                        |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
| BC                                                                                                                                                                                                                                      | RP                  | Narindrasorasak et al, "High Affinity Interactions between the Alzheimer's $\beta$ -Amyloid Precursor Proteins and the Basement Membrane Form of Heparan Sulfate Proteoglycan", <i>J. Biol. Chem.</i> , 266(20): 12878-12883, 1991 |      |                                  |       |               |                |
| BD                                                                                                                                                                                                                                      | RP                  | Chen et al, "Dengue Virus Infectivity Depends on Envelope Protein Bin to Target Cell Heparan Sulfate", <i>Nature Medicine</i> , 3(8): 866-871, 1997                                                                                |      |                                  |       |               |                |
| BE                                                                                                                                                                                                                                      | RP                  | Shieh et al, "Cell Surface Receptors for Herpes Simplex Virus are Heparan Sulfate Proteoglycan Proteoglycans", <i>J. Cell Biol.</i> , 116(5): 1273-1281, 1992                                                                      |      |                                  |       |               |                |
| BF                                                                                                                                                                                                                                      | RP                  | Eisenberg et al, "Lipoprotein Lipase Enhances Binding of Lipoproteins to Heparan Sulfate on Cell Surfaces and Extracellular Matrix", <i>J. Clin. Invest.</i> , 90: 2013-2021, 1992                                                 |      |                                  |       |               |                |
| BG                                                                                                                                                                                                                                      | RP                  | Rapraeger et al, "Requirement of Heparan Sulfate for bFGF-Mediated Fibroblast Growth and Myoblast Differentiation", <i>Science</i> , 252: 1705-1708, 1991                                                                          |      |                                  |       |               |                |
| BH                                                                                                                                                                                                                                      | RP                  | Lider et al, "A Disaccharide that Inhibits Tumor Necrosis Factor $\alpha$ is Formed from the Extracellular Matrix by the Enzyme Heparanase", <i>Proc. Natl. Acad. Sci. USA</i> , 92:5037-5041, 1995                                |      |                                  |       |               |                |
| BI                                                                                                                                                                                                                                      | RP                  | Lider et al, "Suppression of Experimental Autoimmune Diseases and Prolongation of Allograft Survival by Treatment of Animals with Low Doses of Heparins", <i>J. Clin. Invest.</i> , 83: 752-756, 1989                              |      |                                  |       |               |                |
| BJ                                                                                                                                                                                                                                      | RP                  | Gitay-Goren et al, "The Binding of Vascular Endothelial Growth Factor to its Receptors is Dependent on Cell Surface-associated Heparin-like Molecules", <i>J. Biol. Chem.</i> , 267(9): 6093-6098, 1992                            |      |                                  |       |               |                |
| BK                                                                                                                                                                                                                                      | RP                  | Ornitz et al, "FGF Binding and FGF Receptor Activation by Synthetic Heparin Derived Di- and Trisaccharides", <i>Science</i> , 268: 432-436, 1995.                                                                                  |      |                                  |       |               |                |
| BL                                                                                                                                                                                                                                      | RP                  | Spivak-Kroizman et al, "Heparin-Induced Oligomerization of FGF Molecules is Responsible for FGF Receptor Dimerization, Activation, and Cell Proliferation", <i>Cell</i> , 79: 1015-1024, 1994                                      |      |                                  |       |               |                |
| BM                                                                                                                                                                                                                                      | RP                  | Yayon et al, "Cell Surface. Heparin-Like Molecules are required for Binding of Basic Fibroblast Growth Factor to its High Affinity Receptor", <i>Cell</i> , 64: 841-848, 1991                                                      |      |                                  |       |               |                |
| BN                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |
| EXAMINER                                                                                                                                                                                                                                |                     | Rebecca Pouty                                                                                                                                                                                                                      |      | DATE CONSIDERED                  |       | 7-21-18       |                |
| EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                     |                                                                                                                                                                                                                                    |      |                                  |       |               |                |

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| Form PTO-1449 (Modified)                                                                                                                                                                                                                |                     | Atty. Docket No.<br>910/1                                                                                                                                                                                                                             |      | Applicant<br>Iris PECKER et al                                                                                  |                         | Applicant No.<br>08/922, (70) |                |
| INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                                               |                     | Filing Date:<br>September 2, 1997                                                                                                                                                                                                                     |      | <div style="text-align: right;"> <b>RECEIVED</b><br/> <b>FEB 9 1998</b><br/> <b>GROUP 1800</b><br/> 1652 </div> |                         |                               |                |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                   |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
|                                                                                                                                                                                                                                         | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER                                                                                                                                                                                                                                    | DATE | NAME                                                                                                            | CLASS                   | SUB-<br>CLASS                 | FILING<br>DATE |
| CA                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
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| CB                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                        |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
| CC                                                                                                                                                                                                                                      | RP                  | Vlodavsky et al, "Extracellular Matrix-Bound Growth Factors, Enzymes, and Plasma Proteins". Basic Membranes: Cellular and Molecular Aspects (eds. Rohrbach & Timpl) pp 327-343, Academic Press, Orlando, Fla., 1993                                   |      |                                                                                                                 |                         |                               |                |
| CD                                                                                                                                                                                                                                      | RP                  | Vlodavsky et al, "Extracellular Sequestration and release of Fibroblast Growth Factor: A Regulatory Mechanism?", <i>Trends Biochem. Sci.</i> , 16: 268-271, 1991                                                                                      |      |                                                                                                                 |                         |                               |                |
| CE                                                                                                                                                                                                                                      | RP                  | Ishai-Michaeli et al, "Heparanase Activity Expressed by Platelets, Neutrophils, and Lymphoma Cells releases Active Fibroblast Growth Factor from ExtraCellular Matrix", <i>Cell Regulation</i> , 1: 833-842, 1990                                     |      |                                                                                                                 |                         |                               |                |
| CF                                                                                                                                                                                                                                      | RP                  | Ishai-Michaeli et al, "Importance of Size and Sulfatation of Heparin in Release of Basic Fibroblast Growth Factor from the Vascular Endothelium and ExtraCellular Matrix", <i>Biochemistry</i> , 31(7): 2080-2088, 1992                               |      |                                                                                                                 |                         |                               |                |
| CG                                                                                                                                                                                                                                      | RP                  | Folkman et al, "A Heparin-Binding Angiogenic Protein - Basic Fibroblast Growth Factor - is Stored Within Basement Membrane", <i>Am. J. Pathology</i> , 130(2): 393-400, 1988                                                                          |      |                                                                                                                 |                         |                               |                |
| CH                                                                                                                                                                                                                                      | RP                  | Vlodavsky et al, "Endothelial Cell-Derived Basic Fibroblast Growth Factor: Synthesis and Deposition into Subendothelial ExtraCellular Matrix", <i>Proc. Natl. Acad. Sci. USA</i> , 84: 2292-2296, 1987                                                |      |                                                                                                                 |                         |                               |                |
| CI                                                                                                                                                                                                                                      | RP                  | Folkman et al, "Angiogenic Factors", <i>Science</i> , 235: 442-447, 1987                                                                                                                                                                              |      |                                                                                                                 |                         |                               |                |
| CJ                                                                                                                                                                                                                                      | RP                  | Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58:575-606, 1989                                                                                                                     |      |                                                                                                                 |                         |                               |                |
| CK                                                                                                                                                                                                                                      | RP                  | Vlodavsky et al, "Involvement of the ExtraCellular Matrix, Heparin Sulfate Proteoglycans, and Heparin Sulfate Degrading Enzymes in Angiogenesis and Metastis", In: <i>Tumor Angiogenesis</i> , Eds. Lewis et al, Oxford Univ. Press, pp 125-140, 1997 |      |                                                                                                                 |                         |                               |                |
| CL                                                                                                                                                                                                                                      | RP                  | Parish et al, "Evidence that Sulfated Polysaccharides Inhibit Tumor Metastis by Blocking Tumor-Cell-Derived Heparanases", <i>Int. J. Cancer</i> , 40: 511-518, 1987                                                                                   |      |                                                                                                                 |                         |                               |                |
| CM                                                                                                                                                                                                                                      | RP                  | Bashkin et al, "Basic Fibroblast Growth Factor Binds to Subendothelial ExtraCellular Matrix and is Released by Heparitanase and Heparin-Like Molecules", <i>Biochemistry</i> , 28:1737-1743, 1989                                                     |      |                                                                                                                 |                         |                               |                |
| CN                                                                                                                                                                                                                                      |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |
| EXAMINER                                                                                                                                                                                                                                |                     | Rebecca Pouty                                                                                                                                                                                                                                         |      |                                                                                                                 | DATE CONSIDERED 7-21-98 |                               |                |
| EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                     |                                                                                                                                                                                                                                                       |      |                                                                                                                 |                         |                               |                |



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| Form PTO-1449 (Modified)<br><br>INFORMATION DISCLOSURE CITATION<br>IN AN APPLICATION<br>(USE SEVERAL SHEETS IF NECESSARY)                                                                                                                |                     | Atty. Docket No.<br>910/1                                                                                                                                                                                    |      | Application No.<br>08/01170<br><div style="text-align: center; font-weight: bold; font-size: 1.2em;">RECEIVED</div> FEI: 9 1998<br><div style="text-align: center; font-weight: bold; font-size: 1.2em;">GROUP 1800</div> Group and Unit<br>16:2 |                 |               |                |         |
| Applicant:<br>Iris PECKER et al                                                                                                                                                                                                          |                     | Filing Date:<br>September 2, 1997                                                                                                                                                                            |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| U.S. PATENT DOCUMENTS                                                                                                                                                                                                                    |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER                                                                                                                                                                                           | DATE | NAME                                                                                                                                                                                                                                             | CLASS           | SUB-<br>CLASS | FILING<br>DATE |         |
| DA                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| FOREIGN PATENT DOCUMENTS                                                                                                                                                                                                                 |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
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| DB                                                                                                                                                                                                                                       |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)                                                                                                                                                                         |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DC                                                                                                                                                                                                                                       | RP                  | Gospodarowicz et al, "Permissive effect of the ExtraCellular Matrix on Cell Proliferation <i>in vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77(7): 4094-4098, 1980                                      |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DD                                                                                                                                                                                                                                       | RP                  | Vlodavsky et al, "Morphological Appearance, Growth Behavior and Migratory Activity of Human Tumor Cells Maintained on ExtraCellular Matrix Versus Plastic", <i>Cell</i> , 19: 607-616, 1980                  |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DE                                                                                                                                                                                                                                       | RP                  | Vlodavsky et al, "Involvement of Heparanase in Tumor Metastis and Angiogenesis", <i>Israel J. Med. Sci.</i> , 24: 464-470, 1988                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DF                                                                                                                                                                                                                                       | RP                  | Vlodavsky et al, "Lymphoma Cell-mediated Degradation of Sulfated Proteoglycan in the Subendothelial ExtraCellular Matrix: Relationship to Tumor Cell Metastis", <i>Cancer Research</i> , 43: 2704-2711, 1983 |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DG                                                                                                                                                                                                                                       | RP                  | Liotta et al, "Tumor Invasion and the ExtraCellular Matrix", <i>Lab. Inv.</i> , 49(6): 636-649, 1983                                                                                                         |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DH                                                                                                                                                                                                                                       | RP                  | Nicolson, G.L., "Organ Specificity of Tumor Metastis: Role of Preferential Adhesion, invasion and growth of Malignant Cells at Specific Secondary Sites", <i>Cancer Met. Rev.</i> , 7: 143-188, 1988         |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DI                                                                                                                                                                                                                                       | RP                  | Nakajima et al, "Heparanases and Tumor Metastis", <i>J. Cell. Biochem.</i> , 36: 157-167, 1988                                                                                                               |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| DJ                                                                                                                                                                                                                                       | RP                  | Vlodavsky et al, "Inhibition of Tumor Metastis Inhibiting Species of Heparin", <i>Inv. Metast.</i> , 14: 290-302, 1994                                                                                       |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Vlodavsky et al, "Expression of Heparanases by Platelets and Circulating Cells of the Immune System: Possible Involvement in Diapedesis and Extravasation", <i>Inv. Metast.</i> , 12: 112-127, 1992          |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64: 867-869, 1991                                                                                                  |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991                                                                                                  |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9: 1-20, 1989                                                                                                               |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Jackson, et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Rev.</i> , 71(2): 481-539, 1991                                      |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
|                                                                                                                                                                                                                                          | RP                  | Wight et al, "The Role of Proteoglycans in Cell Adhesion, Migration and Proliferation", <i>Curr. Opin. Cell Biol.</i> , 4: 793-801, 1992                                                                     |      |                                                                                                                                                                                                                                                  |                 |               |                |         |
| EXAMINER                                                                                                                                                                                                                                 |                     | Rebecca Ponty                                                                                                                                                                                                |      |                                                                                                                                                                                                                                                  | DATE CONSIDERED |               |                | 7-21-98 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. |                     |                                                                                                                                                                                                              |      |                                                                                                                                                                                                                                                  |                 |               |                |         |

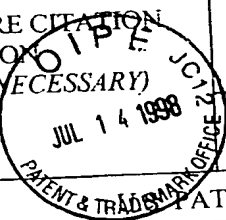
Atty Docket No.  
910/5Application No.  
09/071,739INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION  
(USE SEVERAL SHEETS IF NECESSARY)Applicant:  
Iris PECKER et al

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Filing Date:  
May 1, 1998

GROUP 1800



## PATENT DOCUMENTS

|    | EXAMINER<br>INITIAL | DOCUMENT<br>NUMBER | DATE | NAME | CLASS | SUB-<br>CLASS | FILING<br>DATE |
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| AA |                     |                    |      |      |       |               |                |

## FOREIGN PATENT DOCUMENTS

|    |  | DOCUMENT<br>NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |    |
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## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|    |    |                                                                                                                                                                                                                             |
|----|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AC | MD | Wight et al, "The Role of Proteoglycans in Cell Adhesion, migration and Proliferation", <i>Current Opinion in Cell Biology</i> , 1992, 4:793-801                                                                            |
| AD | MD | Jackson et al, "Glycosaminoglycans: Molecular Properties, Protein Interactions, and Role in Physiological Processes", <i>Physiological Reviews</i> , 71(2):481-539, 1991                                                    |
| AE | MD | Wight, T.N., "Cell Biology of Arterial Proteoglycans", <i>Arteriosclerosis</i> , 9:1-20, 1989                                                                                                                               |
| AF | MD | Kjellen et al, "Proteoglycans: Structures and Interactions", <i>Annu. Rev. Biochem.</i> , 60: 443-475, 1991                                                                                                                 |
| AG | MD | Ruoslahti et al, "Proteoglycans as Modulators of Growth Factor Activities", <i>Cell</i> , 64:867-869, 1991                                                                                                                  |
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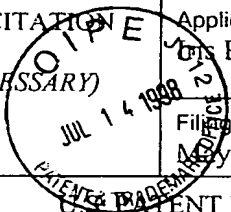
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| BCC | NO | Gospodarowicz et al, "Permissive Effect of the Extracellular Matrix on Cell Proliferation <i>in-vitro</i> ", <i>Proc. Natl. Acad. Sci. USA</i> , 77:4094-4098, 1980                                         |
| BD  | NO | Burgess et al, "The Heparin-Binding (Fibroblast) Growth Factor Family of Proteins", <i>Annu. Rev. Biochem.</i> , 58: 575-606, 1989                                                                          |
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| BI  | NO | Oosta et al, "Purification and Properties of Human Platelets Heparitinase", <i>J. Biol. Chem.</i> , 257: 11,249 - 11,255, 1982                                                                              |
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| CO | NO | Kosir et al, "Human Prostrate Carcinoma Cells Produce Extracellular Heparanase", <i>J. Surg. Res.</i> , 67: 98-105, 1997                                                                                                                  |
| CP | NO | Kosir et al, Abstract 3378, <i>Cancer Res.</i> , 37: 495 1996                                                                                                                                                                             |
| CQ | NO | Ernst et al, "Enzymatic Degradation of Glycosaminoglycans", <i>Crit. Rev. In Biochem. And Mol. Biol.</i> , 30(5): 387-444 1995                                                                                                            |
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|    | NO | Friedman et al, "Regulated Expression of Homeobox Genes <i>Msx-1</i> and <i>Msx-2</i> in Mouse Mammary Gland Development Suggests a Role in Hormone Action and Epithelial-Stromal Interactions", <i>Devel. Biol.</i> , 177: 347-355, 1996 |
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